UNITED STATES PATENT AND TRADEMARK OFFICE

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EXAMINER
BELOUSOV, ANDREY

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *17 March 2009*.
2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-45* is/are pending in the application.
    4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) *1-45* is/are rejected.
7)☐ Claim(s) _____ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a)☐ All   b)☐ Some * c)☐ None of:
      1.☐ Certified copies of the priority documents have been received.
      2.☐ Certified copies of the priority documents have been received in Application No. _____.
      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date *3/25/2009*.
4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5)☐ Notice of Informal Patent Application
6)☐ Other: _____.

DETAILED ACTION

This action is responsive to amendment filed on 3/17/2009. Claims 1-45 are pending

and have been considered below.

Claim Rejections - 35 USC § 112

1.   The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly
> claiming the subject matter which the applicant regards as his invention.

2.   Claims 1, 16, 30 and 45 are rejected under 35 U.S.C. 112, second paragraph, as

being indefinite for failing to particularly point out and distinctly claim the subject matter

which applicant regards as the invention. Claims 1, 16, 30 and 45 recite the limitation

"the current state" in the last line of the claim. There is insufficient antecedent basis for

this limitation in the claim.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

4.   Claims 1-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Hunter, (Java™ Servlet Programming by Jason Hunter, Copyright (c) 2001, 1998

O'Reilly & Associates, Inc.) in view of Popp (6,249,291.)

Claim 1, 16, 30, 45: <u>Hunter</u> discloses a method, machine readable medium having

instructions stored thereon, and a computer readable storage medium for navigating a

graphical user interface (GUI) having at least one page, comprising:

    a. providing a first booklet (e.g. Fig. 7-1, 204; Fig. 9-4, pg. 293), wherein user

        interaction with the first booklet can cause the GUI to navigate to a new page

        (pg. 206);

    b. providing a request based on user interaction with the first booklet (pg. 15);

    c. mapping (pg. 31) the request to a control tree factory (pg. 7);

    d. generating a control tree from the factory based on the request wherein the

        control tree includes a booklet control (Fig. 7-1, pg. 204) corresponding to the

        first booklet;

    e. advancing the control tree through at least one lifecycle stage based on the

        request (pg. 35-36); and

    f. generating a response wherein the response can be used to render the new

        page (pg. 129, 130);

    g. wherein the at least one lifecycle stage includes an event lifecycle stage where at

        least one control of the control tree raise events to communicate with another

        control of the control tree (pf. 580-582);

    h. wherein the event stage occurs before a render lifecycle stage and (pg. 203-204)

        wherein in the render stage the controls of the control tree create their own GUI

        representation (pg. 203-204); and

    i.   wherein a pre-render lifecycle stage occurs between the event lifecycle stage

        and the render lifecycle stage and (pg. 485-486)

However, <u>Hunter</u> does not explicitly disclose

    j.   wherein an additional control is dynamically added to the control tree at a stage

        before the pre-render lifecycle stage and wherein when the additional control is

        added to the control tree dynamically, a lifecycle catch-up process drives the

        additional control through lifecycle stages until the additional control catches-up

        to other controls of the control tree;

    k.   wherein the current stage is at a pre-render stage or later, the additional control

        is driven through at least an "init", "load" and "raise events" lifecycle stage so that

        the additional control catches up to the current state.

<u>Popp</u> discloses a similar Java servlet method,

    l.   wherein an additional control is dynamically added to the control tree at a stage

        before the pre-render lifecycle stage and wherein when the additional control is

        added to the control tree dynamically, a lifecycle catch-up process drives the

        additional control through lifecycle stages until the additional control catches-up

        to a current stage (3:33-36, 4:15-19, 17:18-29, 17:47-53)

   m. wherein the current stage is at a pre-render stage or later (preparation of HTML

        statements for display, 23:6-9), the additional control (e.g. "NSWString" control

        object, 23:24) is driven through at least an "init" (23:31-35 assigning values to

        properties of the control object), "load" (instantiation, 23:25) and "raise events"

        (23:65-24:7, sending and receiving get_value message) lifecycle stage so that

the additional control catches up to the current state (is prepared to be sent to

the client, 23:1-9.)

Therefore, it would have been obvious to one having ordinary skill in the art at the time

the invention was made to combine the teaching of Popp with Hunter. One would have

been motivated to include the teachings of Popp with Hunter so as to manage a large-

scale internet based system involving a plurality of dynamic resources in an object-

oriented implementation using virtual sessions (Popp, 3:34-52.)

Claim 2, 17, 31: Hunter and Popp disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, wherein: the first

booklet is at least one of: 1) a set of tabs and/or buttons; and 2) a menu (Fig. 7-1, pg.

204.)

Claim 3, 18, 32: Hunter and Popp disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, wherein: the first

booklet is associated with at least one of the least one page (Fig. 7-1, pg. 204.; Fig. 9-4,

pg. 293.)

Claim 4, 33: Hunter and Popp disclose a method and machine readable medium having

instructions stored thereon of claim 1 and 30, respectively, wherein: the new page can a

second booklet (Fig. 7-1, pg. 204; Fig. 9-4, pg. 293.)

Claim 5, 19, 34: <u>Hunter</u> and <u>Zhou</u> disclose a method, and a machine readable medium

having instructions stored thereon of claims 1, 16 and 30, respectively, wherein the step

of generating a control tree from the factory comprises:

    a. creating a metadata representation of a control tree (pg. 74, 584); and

    b. generating a class to construct the control tree based on the metadata

        representation (pg. 584.)

Claim 6, 20, 35: <u>Hunter</u> and <u>Popp</u> disclose a method, and a machine readable medium

having instructions stored thereon of claims 1, 16 and 30, respectively, wherein the

request is an hypertext transfer protocol request (HTTP); and the request originates

from a web browser (pg. 15.)

Claim 7, 21, 36: <u>Hunter</u> and <u>Popp</u> disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, comprising:

providing the response to a web browser (pg. 15.)

Claim 8, 22, 37: <u>Hunter</u> and <u>Popp</u> disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, wherein: the

control tree is driven through the at least one lifecycle stage by an interchangeable

lifecycle component (pg. 35-36.)

Claim 9, 23, 38: <u>Hunter</u> and <u>Popp</u> disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, wherein: the

booklet control has an interchangeable persistence mechanism (pg. 37, 216, 384, 582.)

Claim 10, 24, 39: <u>Hunter</u> and <u>Popp</u> disclose a method, and a machine readable

medium having instructions stored thereon of claims 1, 16 and 30, respectively, wherein

the booklet control can render itself according to a theme (Tea Templates, pg. 433.)

Claim 11, 25, 40: <u>Hunter</u> and <u>Popp</u> disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, wherein: the

booklet control can interact with another of the at least one controls (pg. 35.)

Claim 12, 26, 41: <u>Hunter</u> and <u>Popp</u> disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, wherein: the

booklet control can advance through the at least one lifecycle stage in parallel with other

controls in the control tree (pg. 35.)

Claim 13, 27, 42: <u>Hunter</u> and <u>Popp</u> disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, wherein: the at

least one lifecycle stage is one of: init, load state, create child controls, load, raise

events, pre-render, render, save state, unload and dispose (pg. 35, 43.)

Claim 14, 28, 43: <u>Hunter</u> and <u>Popp</u> disclose a method, and a machine readable

medium having instructions stored thereon of claims 1, 16 and 30, respectively, wherein

the response is an HTTP response (pg. 15.)

Claim 15, 29, 44: <u>Hunter</u> and <u>Popp</u> disclose a method and machine readable medium

having instructions stored thereon of claim 1, 16 and 30, respectively, wherein: the

booklet control can raise events and respond to events (pg. 580-583.)

Response to Arguments

5.   Applicant's arguments filed 3/17/2009 have been fully considered but they are

not persuasive. Applicant argues that the limitation amended to the independent claims

to include the feature that "when current stage is at a pre-render stage or later, the

additional control is driven through at least an "init", "load" and "raise events" lifecycle

stage so that the additional control catches up to the current state" is not shown or

made obvious by the cited prior art. The Examiner respectfully disagrees. Columns 23

and 24 of <u>Popp</u> disclose the amended features as detailed above in the rejection.

Conclusion

6.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Andrew Belousov whose telephone number is (571)

270-1695. The examiner can normally be reached on Mon-Fri (alternate Fri off) EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3800.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen S. Hong/
Supervisory Patent Examiner, Art Unit 2178

AB
March 27, 2009